

Attorney Docket No.: **SIT-0106**
Inventors: **Esche and Nazalewicz**
Serial No.: **09/954,994**
Filing Date: **September 18, 2001**
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended) : A device for adaptive vibration attenuation comprising a passive isolator with a nonlinear force-deflection characteristic and an operating point, and a pneumatic actuator which varies the operating point of said isolator along said force-deflection characteristic wherein the pneumatic actuator comprises at least one upper pressure chamber and one lower pressure chamber wherein air pressure in said at least one upper pressure chamber can be externally controlled and wherein the natural frequency of the system is regulated by applying pressure to the upper pressure chamber or the lower pressure chamber.

Claim 2 (currently amended): A device for adaptive vibration attenuation comprising a passive isolator with a nonlinear force-deflection characteristic and a mechanical actuator which varies the an operating point of said passive isolator along said force-deflection characteristic wherein the mechanical actuator is comprised of a coiled spring, a non-linear

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spring and a means for externally controlling the a preload to
said coiled spring whereby as the coiled spring force is varied
pressure is transferred to the non-linear spring.